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NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
4. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS UP TO WIND ZONE 3.
5. DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO MULLION. FENESTRATION UNITS MUST BE APPROVED UNDER SEPARATE APPROVAL.
6. BUCKS SHALL EXTEND BEYOND UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
7. FENESTRATION UNITS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THIS DRAWING. FENESTRATION UNITS MUST BE MANUFACTURED BY FENESTAR USA.
8. DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL FENESTRATION UNIT.
9. VERTICAL MULLIONS ARE NOT PART OF THIS APPROVAL. VERTICAL MULLIONS USED TO MULL UNITS SIDE BY SIDE MUST HAVE SEPARATE APPROVAL.

ANCHORING NOTES:

1. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 7/16" MINIMUM EMBEDMENT WITH 5/8" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
2. FOR ANCHORING INTO CONCRETE USE 1/4" TAPCON WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
3. FOR ANCHORING INTO METAL STRUCTURE USE #14 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL AND 5/8" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
4. ALL FASTENERS TO BE CORROSION RESISTANT.
5. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
 - 5.1. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
 - 5.2. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,200 PSI.
 - 5.3. MASONRY – GROUT/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
 - 5.4. METAL STRUCTURE: STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 125" THICK MINIMUM
6. FENESTRATION UNITS ATTACHED TO MULLION MUST BE ANCHORED IN ACCORDANCE WITH THE FENESTRATION MANUFACTURER'S INSTALLATION INSTRUCTIONS AND FENESTRATION APPROVAL DOCUMENTATION.

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FENESTAR USA
110 JABEZ ST. SUITE 309
NEWARK, NJ 07105

STEEL HORIZONTAL MULLION ASSEMBLY
SINGLE WITH TRANSOM – IMPACT
NOTES

DRAWN:
A.R.

DWG NO.
08-04095

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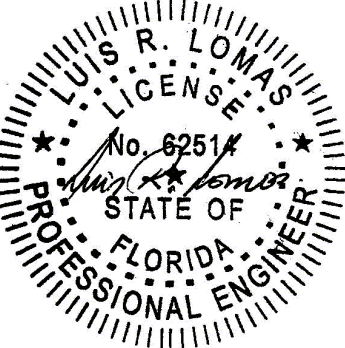
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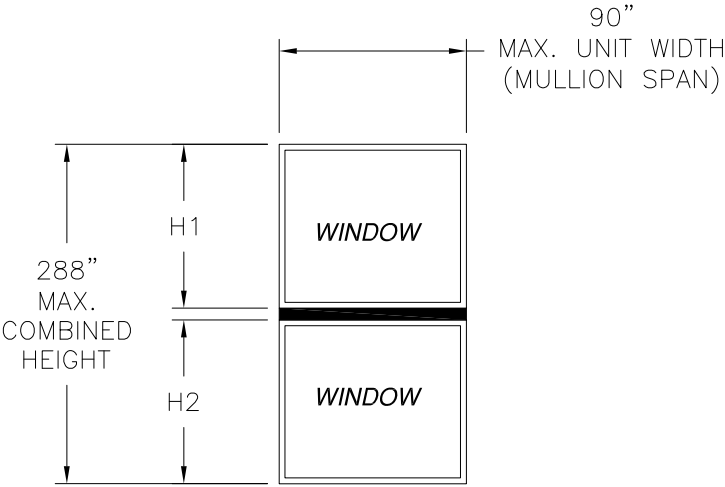
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434-688-0609 rllomas@rlomaspe.com

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- DESIGN PRESSURE TABLE INSTRUCTIONS:
1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
 2. DETERMINE TRIBUTARY HEIGHT AND MULLION SPAN BASED ON PRODUCT TO BE INSTALLED. SEE FORMULA FOR TRIBUTARY HEIGHT.
 3. LOCATE MULLION SPAN (UNIT WIDTH) AND TRIBUTARY HEIGHT. AT THE INTERSECTION OF COLUMN AND ROW CONTAINING THE MULLION SPAN AND TRIBUTARY WIDTH RESPECTIVELY IS THE MULLION RATING FOR PRODUCT IN STEP .
MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.

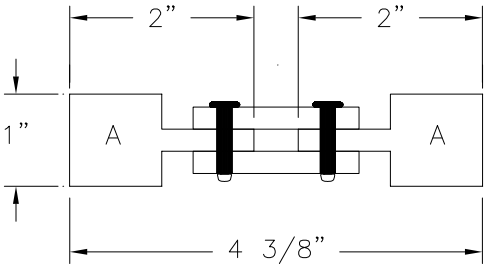
TRIBUTARY HEIGHT = $\frac{H1 + H2}{2}$

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STEEL HORIZONTAL MULLION ASSEMBLY SINGLE WITH TRANSOM – IMPACT APPROVED CONFIGURATIONS		
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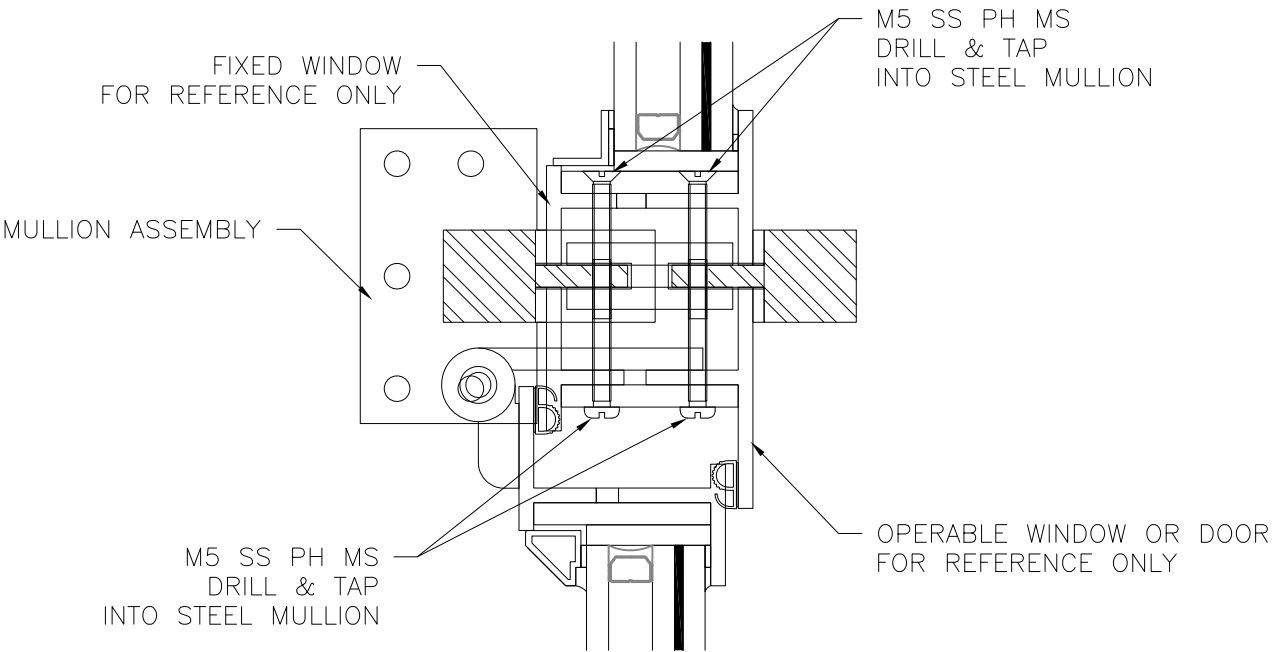
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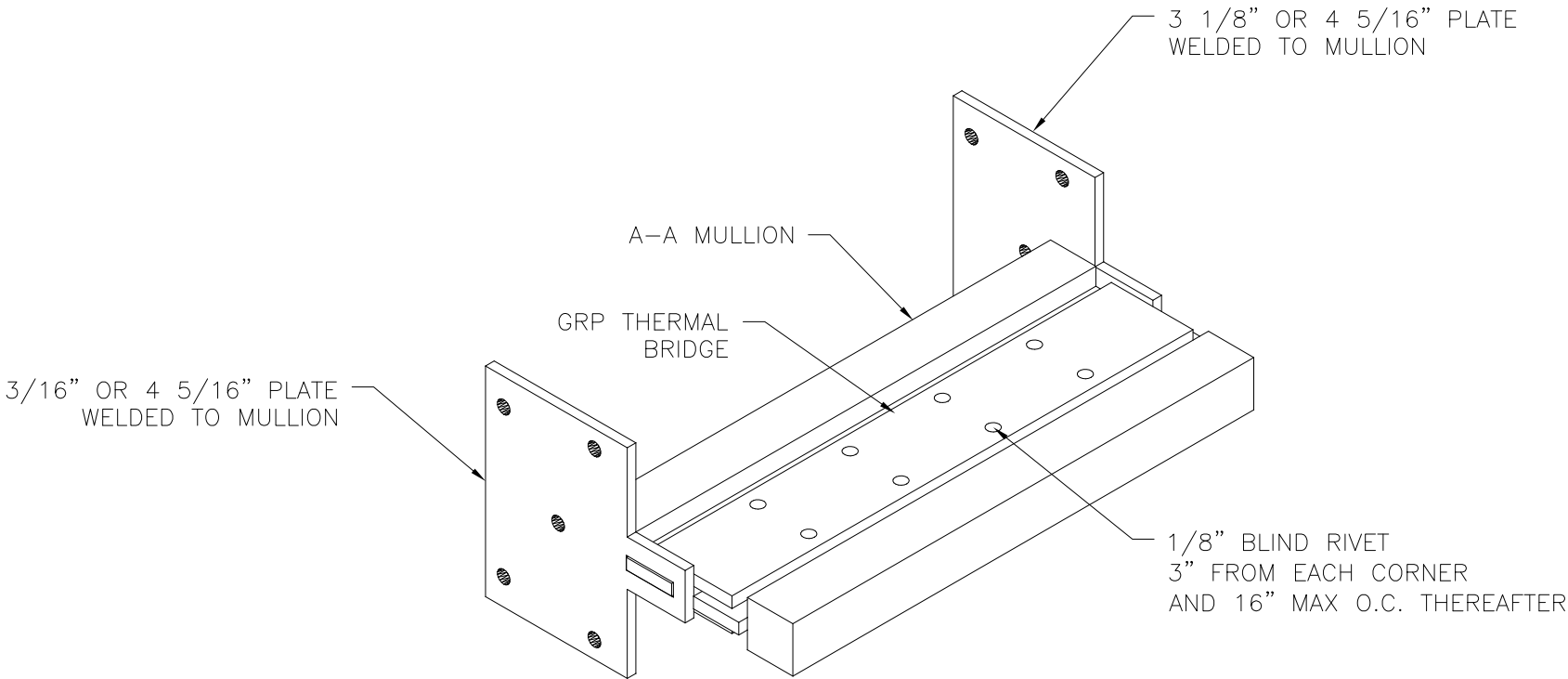
MULLION A-A

Tributary height (in)	Mullion span (in)							
	48.00	54.00	60.00	66.00	72.00	78.00	84.00	90.00
78.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	110.3
84.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	108.8
90.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	108.3
96.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	108.3
102.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	108.3
108.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	108.3
114.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	108.3
120.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	108.3
126.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	108.3
132.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	108.3
138.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	108.3
144.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	108.3



WINDOW/DOOR TO MULLION ASSEMBLY
CONNECTION DETAIL

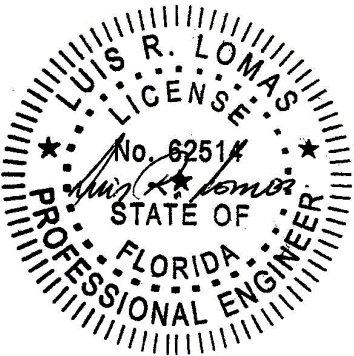
3 1/8" X 3 1/8" X 3/16" STAINLESS STEEL PLATE SHOWN
4 5/16" X 4 5/16" X 3/16" STEEL PLATE SIMILAR



MULLION ASSEMBLY

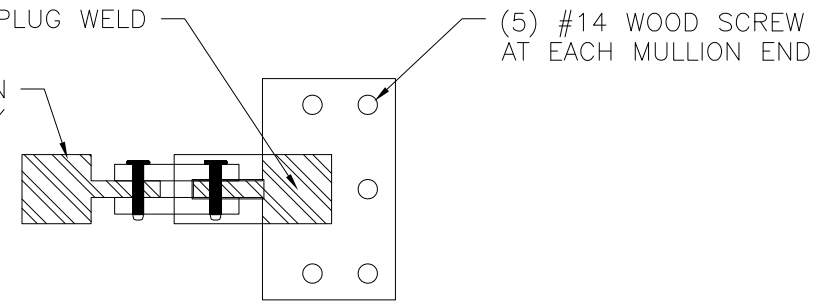
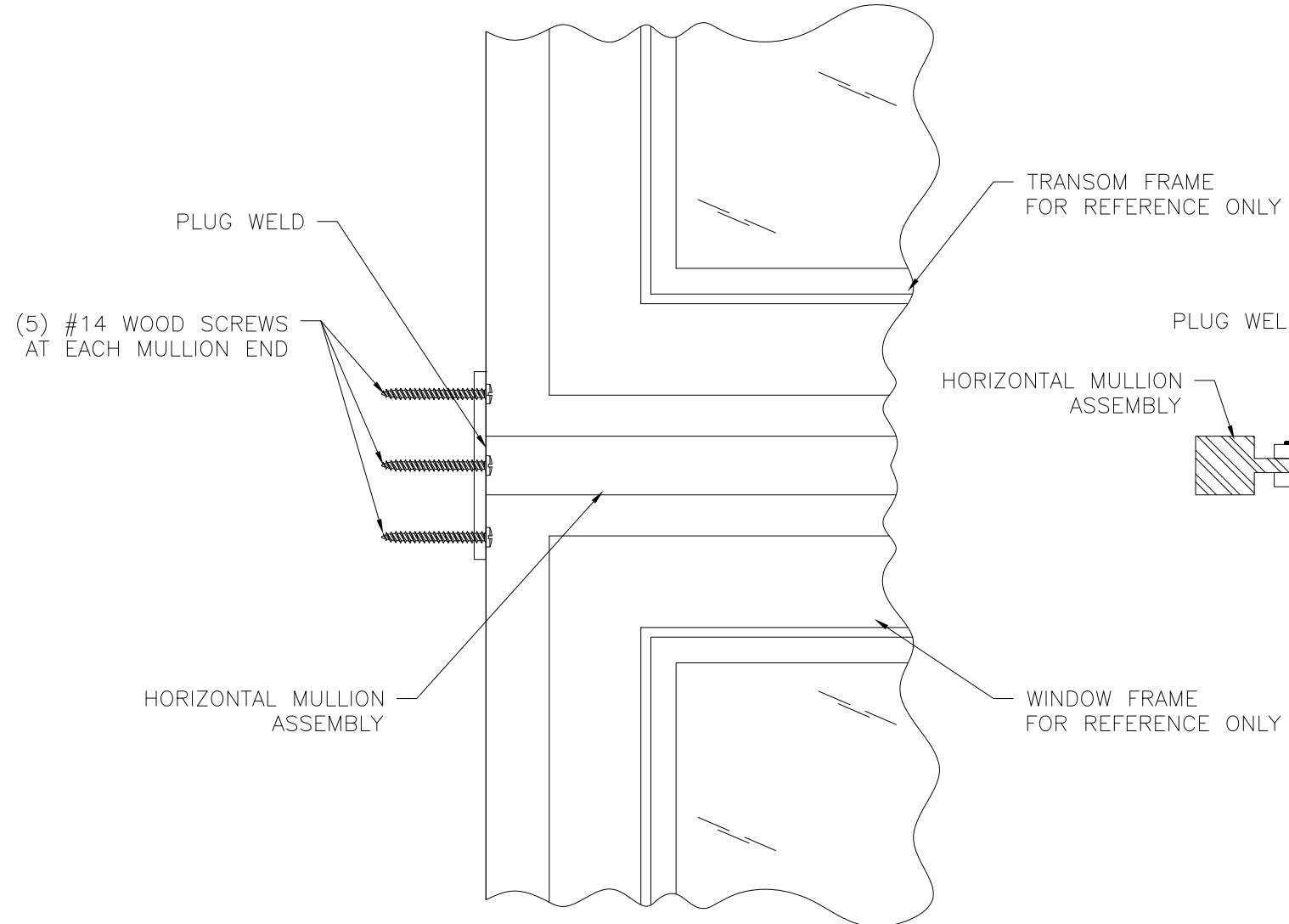
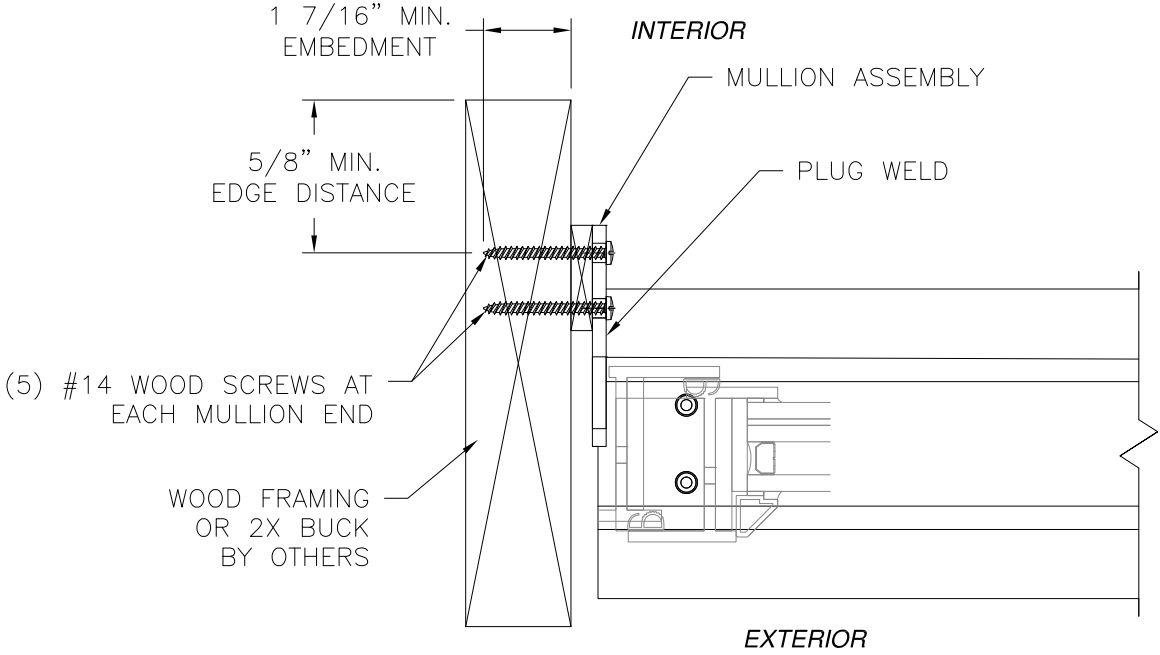
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STEEL HORIZONTAL MULLION ASSEMBLY SINGLE WITH TRANSOM – IMPACT MULLION AND DESIGN PRESSURE CHART		
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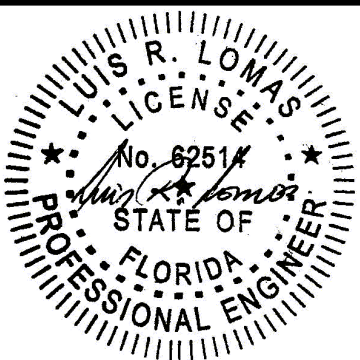
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HORIZONTAL INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK

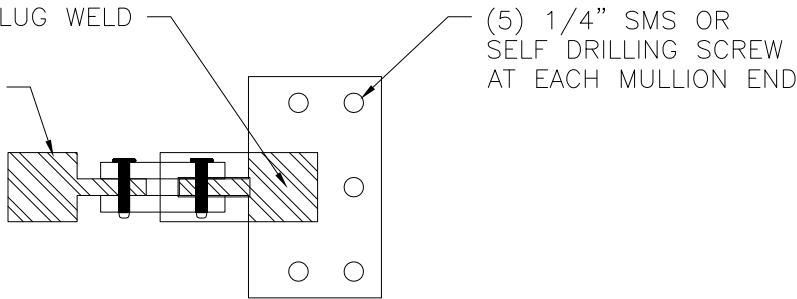
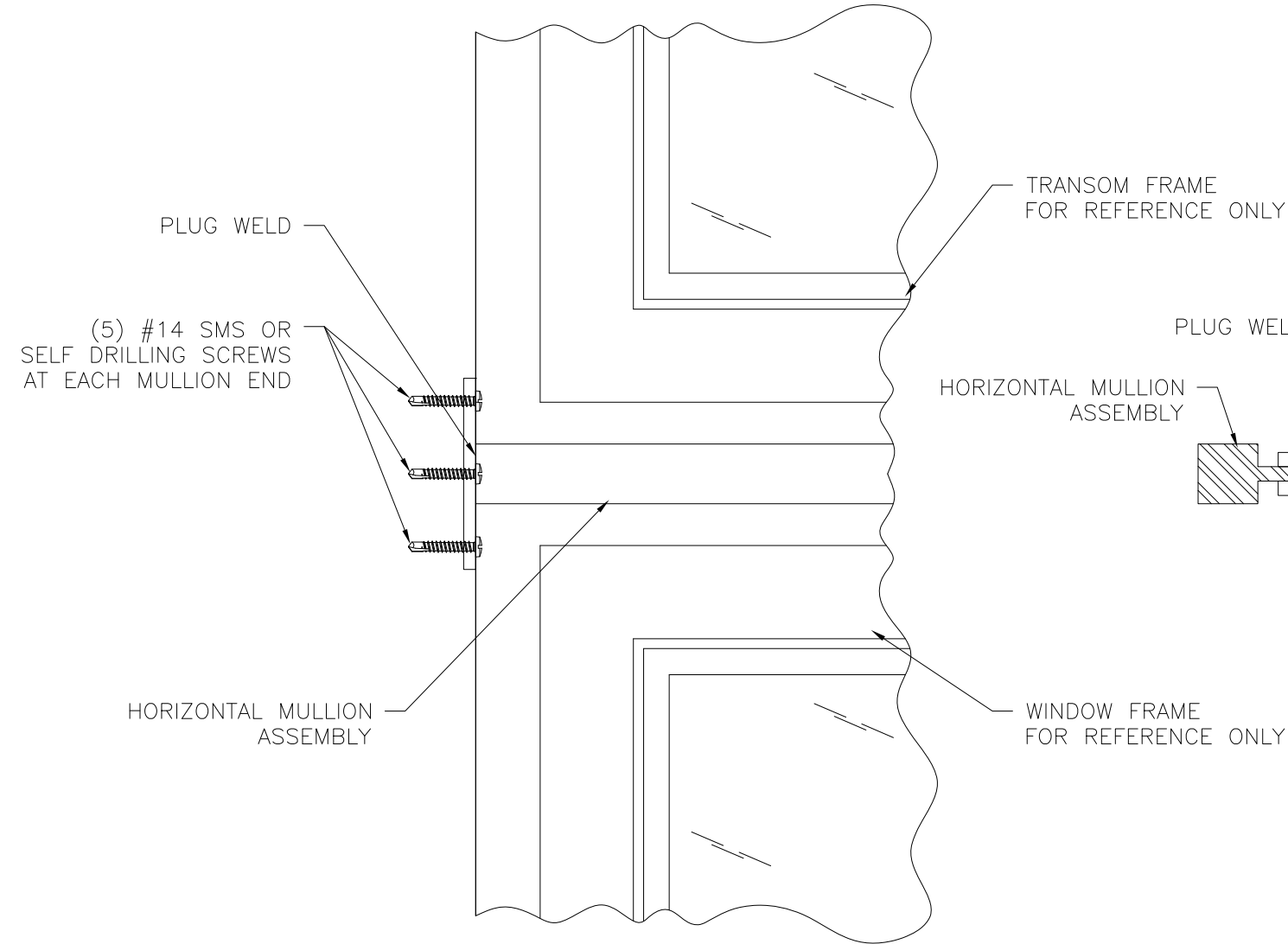
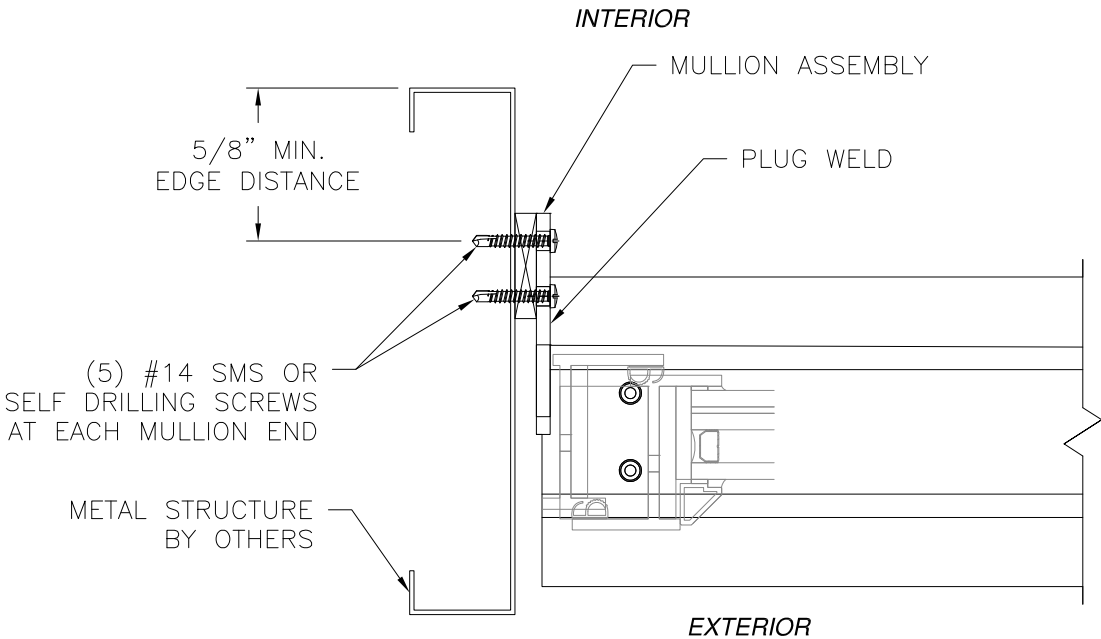
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HORIZONTAL INSTALLATION DETAIL
METAL STRUCTURE

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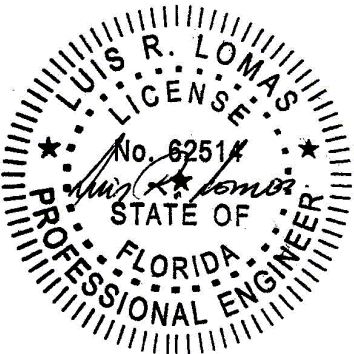
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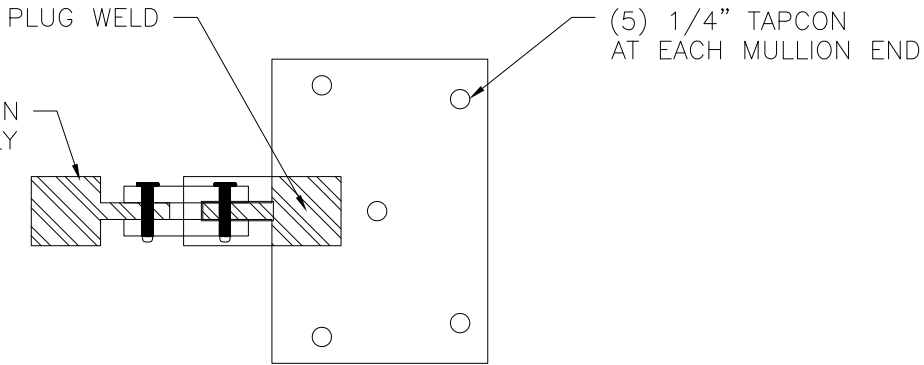
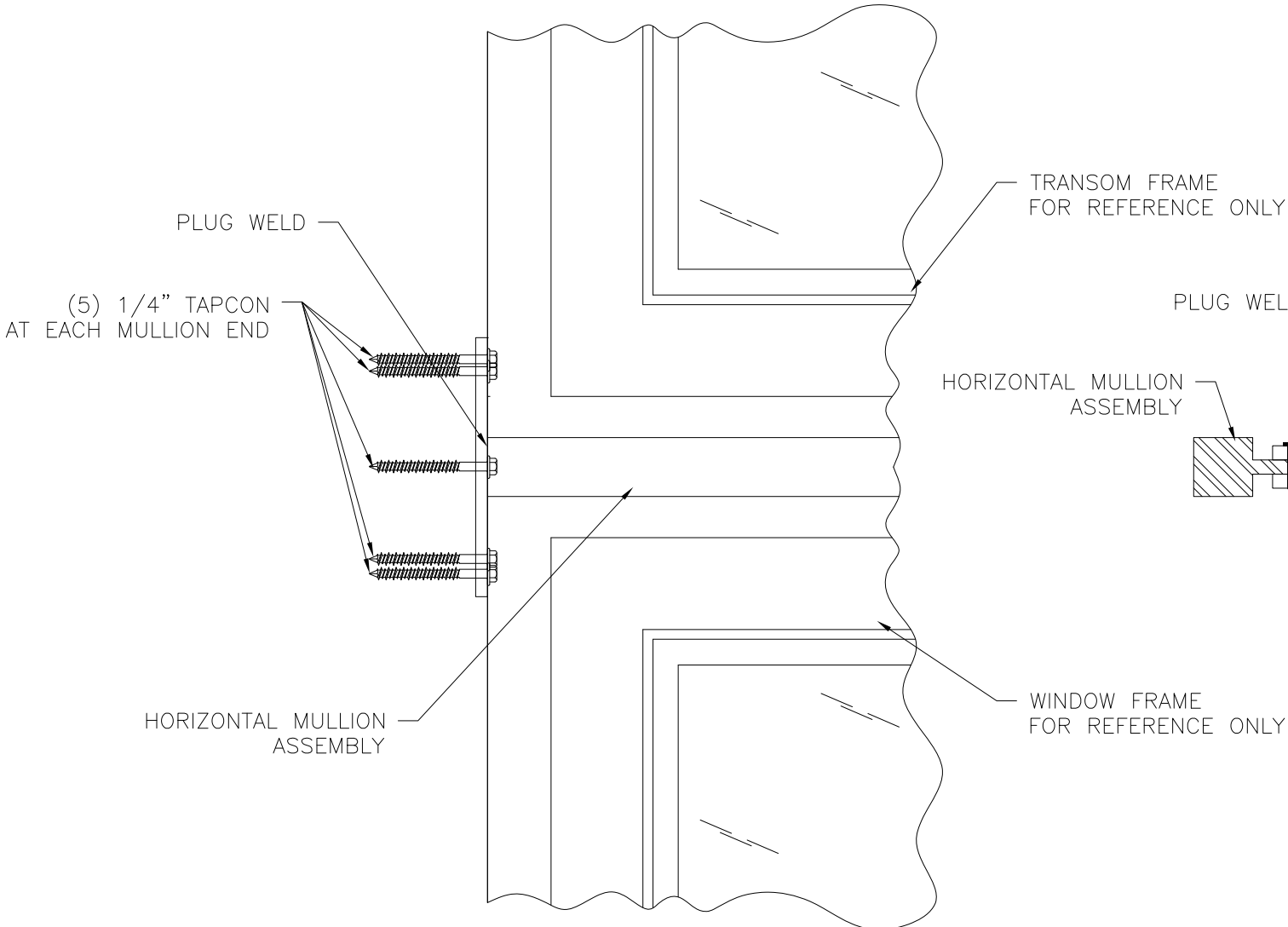
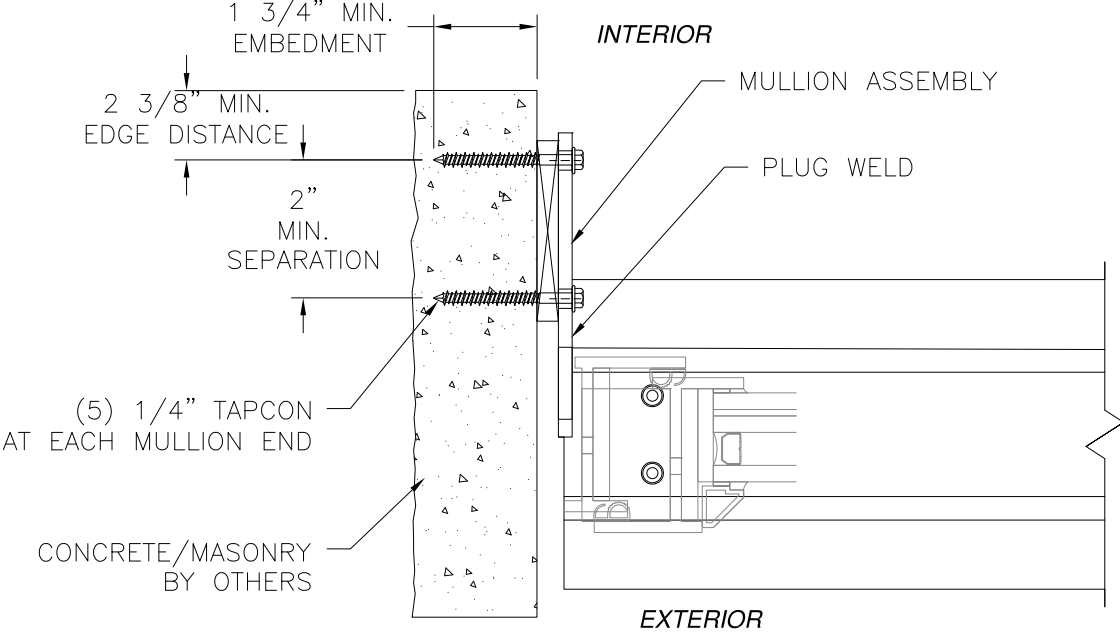
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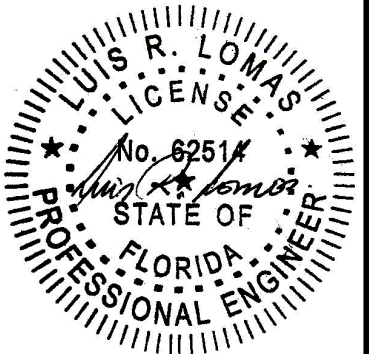
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HORIZONTAL INSTALLATION DETAIL
CONCRETE/MASONRY

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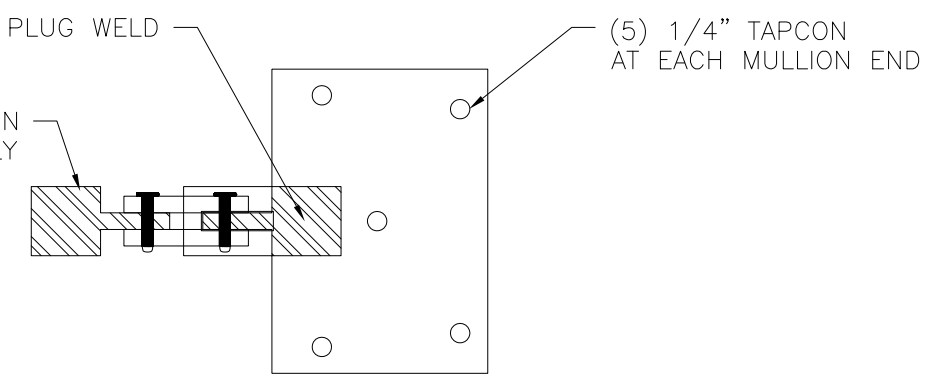
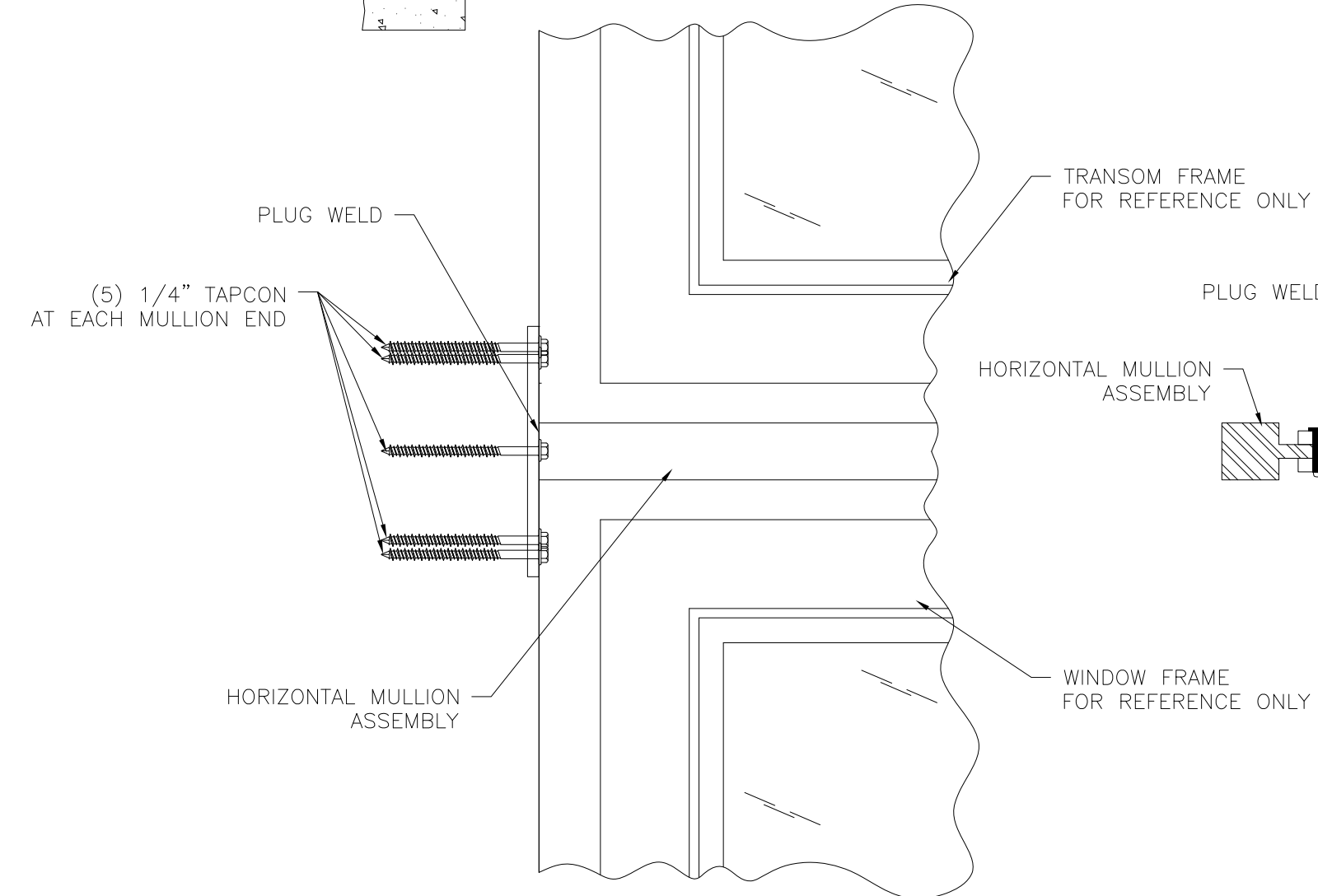
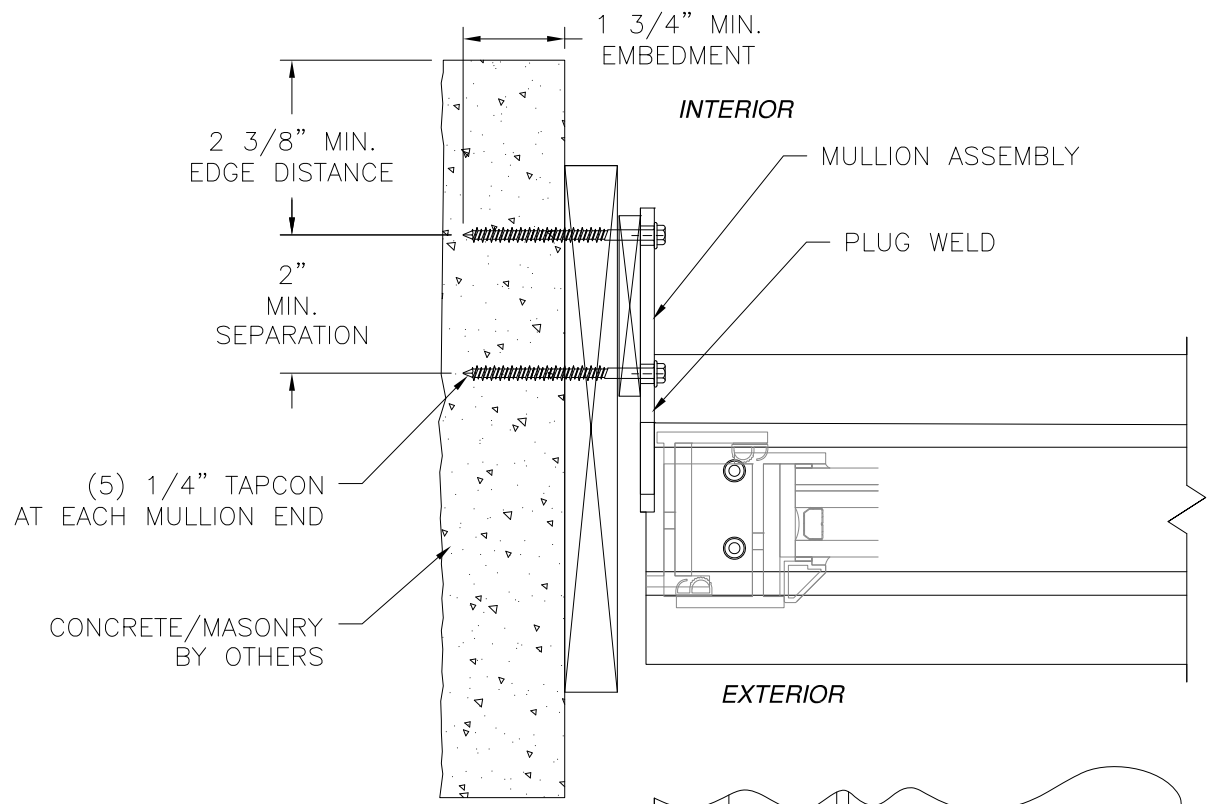
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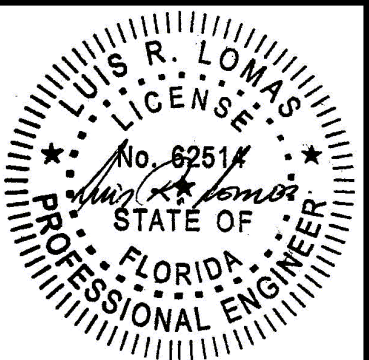
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HORIZONTAL INSTALLATION DETAIL
CONCRETE/MASONRY W/1X BUCK

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